PATENT COOPERATION TREATY

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RANBAXY I.P. DEPARTMENT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER			national Search Report e applicable, item 5 below.
RLL-292W0	ACTION	(,,,	
International application No.	International filing date (da	ay/month/year)	(Earliest) Priority	Date (day/month/year)
PCT/IB 03/01333	10/04/20	003		
Applicant	.			
RANBAXY LABORATORIES LIMI	TED			
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this Internation ansmitted to the Internationa	nal Searching Auth f Bureau.	ority and is transmitt	ed to the applicant
This International Search Report consists [X] It is also accompanied by	of a total of6 a copy of each prior art doc	sheets. ument cited in this	report.	
Basis of the report				
 With regard to the language, the language in which it was filed, unl 	international search was car ess otherwise indicated und	ried out on the bas er this item.	is of the internationa	I application in the
the international search w Authority (Rule 23.1(b)).	as carried out on the basis o	of a translation of th	ne international appli	cation furnished to this
 b. With regard to any nucleotide and was carried out on the basis of the 	e sequence listing :		ternational applicatio	n, the international search
	nal application in written for			
	rnational application in comp).	
furnished subsequently to	this Authority in written form	1.		
furnished subsequently to	this Authority in computer re	eadble form.		
the statement that the sub international application as	sequently furnished written s filed has been furnished.	sequence listing do	es not go beyond th	e disclosure in the
the statement that the info furnished	ermation recorded in compute	er readable form is	identical to the writte	en sequence listing has been
2. Certain claims were four	nd unsearchable (See Box	1).		
3. Unity of invention is lack	king (see Box II).			
4. With regard to the title,				
X the text is approved as sul	bmitted by the applicant.			
the text has been establish	hed by this Authority to read	as follows:		•
5. With regard to the abstract,				
the text is approved as sub	omitted by the applicant.			
the text has been establish within one month from the	ned, according to Rule 38.2(date of mailing of this intern	b), by this Authority ational search repo	as it appears in Bootert, submit comments	k III. The applicant may, s to this Authority.
6. The figure of the drawings to be publi	shed with the abstract is Fig	ure No.		
as suggested by the applic	cant.		X	None of the figures.
because the applicant faile	ed to suggest a figure.		_	
because this figure better	characterizes the invention.			

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB 03/01333

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

This invention generally relates to derivatives of substituted azabicyclo hexanes of formula I. The compounds of this invention can function as muscarinic receptor antagonists, and can be used for the treatment of various diseases of the respiratory, urinary and gastrointestinal systems mediated through muscarinic receptors. The invention also relates to a process for the preparation of the compounds of the present invention, pharmaceutical compositions containing the compounds of the present invention and the methods of treating the diseases mediated through muscarinic receptors.

$$Ar \xrightarrow{R_1} W \xrightarrow{C} X \xrightarrow{Y} W \xrightarrow{R_3} W \xrightarrow{R_3} W \xrightarrow{R_1} W \xrightarrow{R_2} W \xrightarrow{R_3} W \xrightarrow{R_4} W \xrightarrow{R_4} W \xrightarrow{R_5} W \xrightarrow{$$

INTF HATIONAL SEARCH REPORT

International Application No PCT/IB 03/01333

A. CLASS IPC 7	A61K31/403 C07D209/52 A61F	P1/00	A61P11/00	A61P13/00
	to International Patent Classification (IPC) or to both national of SEARCHED	classification and	IPC	
	ocumentation searched (classification system followed by cla	assification symbo	uls)	
IPC 7	CO7D			
Documenta	alion searched other than minimum documentation to the exten	ent that such docu	ments are included in	the fields searched .
Electronic	data base consulted during the international search (name of	data base and, v	vhere practical, search	terms used)
EPO-In	ternal, WPI Data, PAJ, CHEM ABS	Data		
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		_	
Category °	Citation of document, with indication, where appropriate, of	of the relevant pas	sages	Relevant to daim No.
A	EP 0 863 141 A (BANYU PHARMA 9 September 1998 (1998-09-09) claim 1			1–17
Α	US 6 307 060 B1 (WAELBROECK M 23 October 2001 (2001-10-23) see formula I, column 1 and p column 2		•	
Furt	her documents are listed in the continuation of box C.	X	Patent family members	s are listed in annex.
-	ategories of cited documents:	"T" later		fer the international filing date
consid	ent defining the general state of the art which is not lered to be of particular relevance	cited	d to understand the print ntion	nciple or theory underlying the
filing o		cani	not be considered nove	rance; the claimed invention el or cannot be considered to
which citatio	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another nor other special reason (as specified) ent referring to an oral disclosure, use, exhibition or	"Y" docui	ment of particular relev	when the document is taken alone vance; the claimed invention volve an inventive step when the n one or more other such docu-
P docume	means ent published prior to the international filing date but nan the priority date claimed	in th	ts, such combination be art. ment member of the sa	peing obvious to a person skilled
Date of the	actual completion of the international search	Date	of mailing of the interr	national search report
1	4 July 2003		30/07/2003	
Name and r	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Auth	orized officer	
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Bérillon, L	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Present claims 1-17 relate to compounds defined by reference to a desirable characteristic or property, namely metabolites of formula I. The claims cover all compounds having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT for only a very limited number of such compounds. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the compounds by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the compounds having the structure of Formula I and their pharmaceutically acceptable solvates, esters, enantiomers, diastereoisomers, N-oxides or polymorphs.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

International application No. PCT/IB 03/01333

INTERNATIONAL SEARCH REPORT

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)	
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
1. χ Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
Although claims 4-7 are directed to a method of treatment of the human/anima body, the search has been carried out and based on the alleged effects of the compound/composition.	
Claims Nos.: Cl	
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)	
This International Searching Authority found multiple inventions in this international application, as follows:	
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.	
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:	
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.	

INTE INTIONAL SEARCH REPORT

Information on patent family members

PCT/IB 03/01333

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